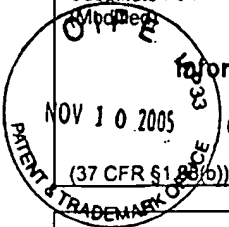


Substitute Form PTO-1449 (Rev. 10-1-99)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-019001	Application No. 10/003,917
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Joseph A. Zupanick et al.	
		Filing Date November 1, 2001	Group Art Unit 3673

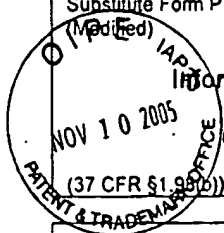


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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-019001	Application No. 10/003,917
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Joseph A. Zupanick et al.	
		Filing Date November 1, 2001	Group Art Unit 3673

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EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-019001	Application No. 10/003,917
	Applicant Joseph A. Zupanick et al.		
	Filing Date November 1, 2001		Group Art Unit 3673

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
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<i>L</i>	C21	Notification of Transmittal of the International Search Report or the Declaration (3 pages) and International Search Report (6 pages) mailed March 13, 2003 for International Application No. PC/US02/33128
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EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

SUBSTITUTE Form PTO-1449 (Modified) APR 07 2005 PATENT & TRADEMARK OFFICE (37 C.F.R. § 1.98(b))	U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 17601-019001	Application No. 10/003,917
	Information Disclosure Statement by Applicant (Use several sheets if necessary)			
	Applicant Joseph A. Zupanick et al.		Filing Date November 1, 2001	Group Art Unit 3673

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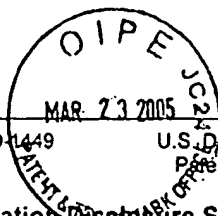
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EXAMINER: Initials citing considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	



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		Applicant Joseph A. Zupanick et al.	
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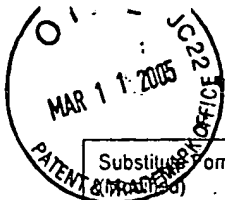
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Substitute Form PTO-1449	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-019001	Application No. 10/003,917
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Joseph A. Zupanick et al.	
		Filing Date November 1, 2001	Group Art Unit 3673

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Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
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Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
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Information Disclosure Statement by Applicant (Use several sheets if necessary) 37 CFR §1.98(b)		Applicant Joseph A. Zupanick et al.	
		Filing Date : November 1, 2001	Group Art Unit 3673

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	Applicant Joseph A. Zupanick et al.			
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Sheet 1 of 2

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-019001	Application No. 10/003,917
Mail Date Information Disclosure Statement OCT 01 2004 Canceled by Applicant (Use several sheets if necessary)		Applicant Joseph A. Zupanick et al.	
37 CFR §1.980		Filing Date November 1, 2001	Group Art Unit 3673

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	B4							

Other Documents (include Author, Title, Date, and Place of Publication)

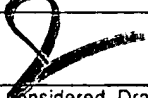
Examiner Initial	Desig. ID	Document
9	C1	Langley, Diane, "Potential Impact of Microholes Is Far From Diminutive," JPT Online, http://www.spe.org/spe/jpt/jps , November 2004 (5 pages)
1	C2	Consol Energy Slides, "Generating Solutions, Fueling Change," Presented at Appalachian E&P Forum, Harris Nesbitt Corp., Boston, October 14, 2004 (29 pages)
1	C3	Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration (3 pages), International Search Report (3 pages), and Written Opinion of the International Searching Authority (5 pages) re International Application No. PCT/US2004/024518 mailed November 10, 2004
1	C4	Schenk, Christopher J., "Geologic Definition and Resource Assessment of Continuous (Unconventional) Gas Accumulations - the U.S. Experience," Website, http://aapg.confex.com/.../ , printed November 16, 2004 (1 page)
2	C5	U.S. Department of Interior, U.S. Geological Survey, "Characteristics of Discrete and Basin-Centered Parts of the Lower Silurian Regional Oil and Gas Accumulation, Appalachian Basin: Preliminary Results From a Data Set of 25 oil and Gas Fields," U.S. Geological Survey Open-File Report 98-216, Website, http://pubs.usgs.gov/of/1998/of98-216/introl.htm , printed November 16, 2004 (2 pages)

Examiner Signature 	Date Considered 11/23/06
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-159 (Mailed)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-019001	Application No. 10/003,917
Information Disclosure Statement by Applicant (Use several sheets if necessary) CFR \$1.98(b)		Applicant Joseph A. Zupanick et al.	
		Filing Date November 1, 2001	Group Art Unit 3673

Other Documents (include Author, Title, Date, and Place of Publication)

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7	C6	Zupanick, J., "Coalbed Methane Extraction," 28 th Mineral Law Conference, Lexington, Kentucky, October 16-17, 2003 (48 pages)
2	C7	Zupanick, J., "CDX Gas - Pinnacle Project," Presentation at the 2002 Fall Meeting of North American Coal Bed Methane Forum, Morgantown, West Virginia, October 30, 2002 (23 pages)


Examiner Signature 	Date Considered <u>1/23/04</u>
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-019001	Application No. 10/003,917
Information Disclosure Statement by Applicant (Use several sheets if necessary) NOV 14 2004 37 CFR § 1.984 PATENT & TRADEMARK OFFICE		Applicant Joseph A. Zupanick et al.	
		Filing Date November 1, 2001	Group Art Unit 3673

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Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
4	A1	3,744,565	07/10/1973	Brown			
2	A2	4,060,130	11/29/1977	Hart			
2	A3	2002/0043404 A1	04/18/2002	Trueman et al.			


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Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
7	B1	EP 1 316 673 A2	06/04/2003	EPO			N/A	
4	B2	SU-876968	10/30/1981	Russia				X

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
9	C1	Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration (3 pages), International Search Report (5 pages) and Written Opinion of the International Searching Authority (6 pages) re International Application No. PCT/US2004/012029 mailed September 22, 2004
	C2	Brunner, D.J. and Schwoebel, J.J., "Directional Drilling for Methane Drainage and Exploration in Advance of Mining," REI Drilling Directional Underground, World Coal, 1999, 10 pages
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	C4	U.S. Climate Change Technology Program, "Technology Options for the Near and Long Term," 4.1.5 Advances in Coal Mine Methane Recovery Systems, pp. 162-164
	C5	Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration (3 pages), International Search Report (3 pages) and Written Opinion of the International Searching Authority (7 pages) re International Application No. PCT/US2004/017048 mailed October 21, 2004
	C6	Gardes, Robert, "Multi-Seam Completion Technology," Natural Gas Quarterly, E&P, June 2004, pp. 78-81
	C7	Baiton, Nicholas, "Maximize Oil Production and Recovery," Vertizontal Brochure, received 10/2/2002, 4 pages
2	C8	Dreiling, Tim, McClelland, M.L. and Bilyeu, Brad, "Horizontal & High Angle Air Drilling in the San Juan Basin, New Mexico," Dated on or about 3/6/2003, pp. 1-11

Examiner Signature 	Date Considered 11/23/06
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-019001	Application No. 10/003,917
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Joseph A. Zupanick et al.	
		Filing Date November 1, 2001	Group Art Unit 3673

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
9	C9	Fong, David K., Wong, Frank Y., and McIntyre, Frank J., "An Unexpected Benefit of Horizontal Wells on Offset Vertical Well Productivity in Vertical Miscible Floods," Canadian SPE/CIM/CANMET Paper No. HWC94-09, paper to be presented March 20-23, 1994, Calgary, Canada, 10 pages
1	C10	Fischer, Perry A., "What's Happening in Production," World Oil, June 2001, p. 27
1	C11	Website of PTTC Network News Volume 7, 1 st Quarter 2001, Table of Contents, http://www.pttc.org/./news/v7n1nn4.htm printed 04/25/2003, 3 pages
1	C12	Cox, Richard J.W., "Testing Horizontal Wells While Drilling Underbalanced," Delft University of Technology, August 1998, 68 pages
1	C13	McLennan, John, et al., "Underbalanced Drilling Manual," Gas Research Institute, Chicago, Illinois, GRI Reference No. GRI-97/0236, copyright 1997, 502 pages
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Examiner Signature 	Date Considered 11/23/06
EXAMINER: Initials <u>9</u> considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified) SEP 18 2004 37 CFR 1.98(b)	U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 17601-019001	Application No. 10/003,917
	Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Joseph A. Zupanick et al.	
			Filing Date November 1, 2001	Group Art Unit 3673

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Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
1	A1	4,651,836	03/24/1987	Richards			
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	A7						
a	A8						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
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	B1							
	B2							
	B3							
	B4							
	B5							


Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
1	C1	PowerPoint Presentation entitled, "Horizontal Coalbed Methane Wells," by Bob Stayton, Computalog Drilling Services, date is believed to have been in 2002 (39 pages)
c	C2	Denney, Dennis, "Drilling Maximum-Reservoir-Contact Wells in the Shaybah Field," SPE 85307, pages 60, 62-63, October 20, 2003
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	C4	

Examiner Signature 	Date Considered 1/23/06
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified) JC10 AUG 25 2001 37 CFR § 1.212 (b) (PATENT & TRADEMARK OFFICE)	U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 17601-019001	Application No. 10/003,917
	Information Disclosure Statement by Applicant (Use several sheets if necessary)			
	Applicant Joseph A. Zupanick et al.			
	Filing Date November 1, 2001		Group Art Unit 3673	




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Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
✓	A1	2,797,893	07/02/1957	McCune et al.			
✓	A2	3,582,138	06/01/1971	Loofbourow et al.			
✓	A3	3,587,743	06/28/1971	Howard			
✓	A4	4,151,880	05/01/1979	Vann			
✓	A5	4,222,611	09/16/1980	Larson et al.			
✓	A6	4,415,205	11/15/1983	Rehm et al.			
✓	A7	4,502,733	03/05/1985	Grubb			
✓	A8	4,533,182	08/06/1985	Richards			
✓	A9	4,753,485	06/28/1988	Goodhart			
✓	A10	5,697,445	12/16/1997	Graham			


Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
✓	B1	WO 94/28280	12/08/1994	WIPO			N/A	

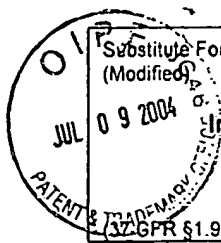
Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
✓	C1	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) (3 pages) and International Search Report (7 pages) re International Application No. PCT/US 03/04771 mailed July 4, 2003
✓	C2	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) (3 pages) and International Search Report (5 pages) re International Application No. PCT/US 03/21891 mailed November 13, 2003
✓	C3	Desai, Praful, et al., "Innovative Design Allows Construction of Level 3 or Level 4 Junction Using the Same Platform," SPE/Petroleum Society of CIM/CHOA 78965, Canadian Heavy Oil Association, 2002, pages 1-11
✓	C4	Bybee, Karen, "Advanced Openhole Multilaterals," Horizontal Wells, November 2002, pages 41-42
✓	C5	Bybee, Karen, "A New Generation Multilateral System for the Troll Olje Field," Multilateral/Extended Reach, July 2002, pages 50-51
✓	C6	Emerson, A.B., et al., "Moving Toward Simpler, Highly Functional Multilateral Completions," Technical Note, Journal of Canadian Petroleum Technology, May 2002, Volume 41, No. 5, pages 9-12
✓	C7	Moritis, Guntis, "Complex Well Geometries Boost Orinoco Heavy Oil Producing Rates," XP-000969491, Oil & Gas Journal, February 28, 2000, pages 42-46
Examiner Signature		Date Considered
		1/23/04
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		

Substitute Form PTO-1449 (Revised)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-019001	Application No. 10/003,917
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Joseph A. Zupanick et al.	
37 CFR § 1.815 (b) (1) (i) (ii) (iii) (iv) (v) (vi) (vii) (viii) (ix) (x) (xi) (xii) (xiii) (xiv) (xv) (xvi) (xvii) (xviii) (xix) (xx) (xxi) (xxii) (xxiii) (xxiv) (xxv) (xxvi) (xxvii) (xxviii) (xxix) (xxx)		Filing Date November 1, 2001	Group Art Unit 3673

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	C8	Themig, Dan, "Multilateral Thinking," New Technology Magazine, December 1999, pages 24-25
	C9	Smith, R.C., et al., "The Lateral Tie-Back System: The Ability to Drill and Case Multiple Laterals," IADC/SPE 27436, Society of Petroleum Engineers, 1994, pages 55-64, plus Multilateral Services Profile (1 page) and Multilateral Services Specifications (1 page)
	C10	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) (3 pages) and International Search Report (4 pages) re International Application No. PCT/US 03/13954 mailed September 1, 2003
	C11	Logan, Terry L., "Drilling Techniques for Coalbed Methane," Hydrocarbons From Coal, Chapter 12, Cover Page, Copyright Page, pp. 269-285, Copyright 1993
	C12	Hanes, John, "Outbursts in Leichhardt Colliery: Lessons Learned," International Symposium-Cum-Workshop on Management and Control of High Gas Emissions and Outbursts in Underground Coal Mines," Wollongong, NSW, Australia, March 20-24, 1995, Cover page, pp. 445-449
	C13	Williams, Ray, et al., "Gas Reservoir Properties for Mine Gas Emission Assessment," Bowen Basin Symposium 2000, pp. 325-333
	C14	Brown, K., et al., "New South Wales Coal Seam Methane Potential," Petroleum Bulletin 2, Department of Mineral Resources, Discovery 2000, March 1996, pp. i-viii, 1-96
	C15	Fipke, S., et al., "Economical Multilateral Well Technology for Canadian Heavy Oil," Petroleum Society, Canadian Institute of Mining, Metallurgy & Petroleum, Paper 2002-100, to be presented in Calgary Alberta, June 11-13, 2002, pages 1-11

Examiner Signature 	Date Considered <u>1/23/06</u>
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	


 Substitute Form PTO-1449
 (Modified)

 U.S. Department of Commerce
 Patent and Trademark Office

 Attorney's Docket No.
 17601-019001

 Application No.
 10/003,917

**Information Disclosure Statement
 by Applicant**

(Use several sheets if necessary)

 Applicant
 Joseph A. Zupanick et al.

 Filing Date
 November 1, 2001

 Group Art Unit
 3673

U.S. Patent Documents

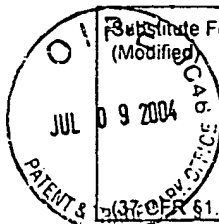
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<i>k</i>	A1	4,020,901	05/03/1977	Pisio et al.			
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Foreign Patent Documents or Published Foreign Patent Applications

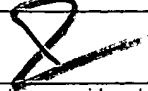
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<i>T</i>	B1	AU 85/49964 A	11/20/1986	Australia			Abstract Only	

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Signature 	Date Considered <i>1/23/06</i>
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

	Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-019001	Application No. 10/003,917
	Information Disclosure Statement by Applicant (Use several sheets if necessary)			Applicant Joseph A. Zupanick et al.
				Filing Date November 1, 2001
	(37 CFR § 1.98(b))			

Examiner Initial	Desig. ID	Document
<i>2</i>	C1	U.S. Department of Energy, "Slant Hole Drilling," March 1999, 1 page

Examiner Signature 	Date Considered 1/23/06
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAttorney's Docket No.
17601-019001Application No.
10/003,917Information Disclosure Statement
by Applicant

(Use several sheets if necessary)

Applicant
Joseph A. Zupanick et al.Filing Date
November 1, 2001Group Art Unit
3673

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(37 CFR §1.98(a))

U.S. Patent Documents

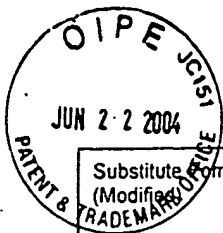
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K	A1	1,488,106	03/25/1924	Fitzpatrick			
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	A20	6,575,235	06/10/2003	Zupanick et al.			
	A21	6,575,255	06/10/2003	Rial et al.			
	A22	6,591,922	07/15/2003	Rial et al.			
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	A24	6,595,302	07/22/2003	Diamond et al.			
	A25	6,604,580	08/12/2003	Zupanick et al.			
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Examiner Signature

Date Considered

1/23/06

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

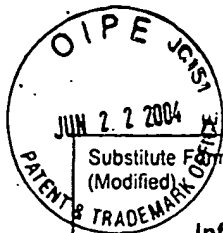


Substitute Disclosure Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-019001	Application No. 10/003,917
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Joseph A. Zupanick et al.	
		Filing Date November 1, 2001	Group Art Unit 3673

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
2	A28	6,646,441	11/11/2003	Thompson et al.			
	A29	6,668,918	12/30/2003	Zupanick			
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Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
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4	B1	CA 2,210,866	01/19/1998	Canada			X	
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	B4	GB 2 255 033 A	10/28/1992	United Kingdom			N/A	
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2	B6	WO 98/35133	08/13/1998	WIPO			N/A	

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Examiner Initial	Desig. ID	Document
2	C1	Stayton, R.J. "Bob", "Horizontal Wells Boost CBM Recovery," Special Report: Horizontal and Directional Drilling, The American Oil and Gas Reporter, August 2002, pp. 71-75
Examiner Signature		Date Considered 1/22/06
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		



Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-019001	Application No. 10/003,917
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Joseph A. Zupanick et al.	
		Filing Date November 1, 2001	Group Art Unit 3673

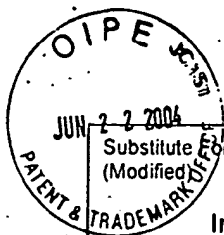
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Examiner Initial	Desig. ID	Document
A	C2	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) (3 pages) and International Search Report (4 pages) re International Application No. PCT/US 03/38383 mailed June 2, 2004
	C3	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) (3 pages) and International Search Report (6 pages) re International Application No. PCT/US 03/28138 mailed February 9, 2004
	C4	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) (3 pages) and International Search Report (6 pages) re International Application No. PCT/US-03/30126 mailed February 27, 2004
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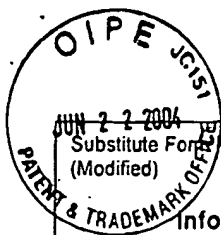


Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-019001	Application No. 10/003,917
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Joseph A. Zupanick et al.	
		Filing Date November 1, 2001	Group Art Unit 3673

Other Documents (include Author, Title, Date, and Place of Publication)

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